## PENDING CLAIMS AS AMENDED

Please amend the claims as follows:

 (Previously Presented) A method for estimating a reverse link maximum data rate, comprising:

determining at a source of data a quality metric of a link over which data is to be transmitted wherein the quality metric is determined by:

generating an open loop estimate of the quality metric;

generating a closed loop estimate of the quality metric;

filtering the open loop estimate using a first filtering method;

filtering the closed loop estimate using a second filtering method; and

summing the filtered open loop estimate and the filtered closed loop estimate;

modifying the quality metric by a transmission power margin; and

determining a maximum rate of data in accordance with the modified quality metric.

2. (Cancelled)

 (Previously Presented) The method as claimed in claim 1, wherein the first filtering method comprises:

filtering said quality metric by a linear filter.

4. (Previously Presented) The method as claimed in claim 1, wherein the first filtering method comprises:

filtering said quality metric by a non-linear filter.

5. (Previously Presented) The method as claimed in claim 4, wherein said filtering the quality metric by a non-linear filter comprises:

filtering said quality metric by a peak filter.

6. (Cancelled)

Attorney Docket No.: 020180

Customer No.: 23696

7. (Previously Presented) The method as claimed in claim 1, wherein determining at a source of data a quality metric of a link over which data is to be transmitted comprises:

receiving at a source of data at least one first reference signal; and

determining the quality metric in accordance with the received at least one first reference signal.

8. (Previously Presented) The method as claimed in claim 1, wherein determining at a source of data a quality metric of a link over which data is to be transmitted comprises:

receiving at a source of data a feedback signal; and

determining the quality metric in accordance with the received feedback signal.

9. (Previously Presented) The method as claimed in claim 1, wherein determining at a source of data a quality metric of a link over which data is to be transmitted comprises:

receiving at a source of data at least one signal;

receiving at a source of data a feedback signal; and

determining the quality metric in accordance with the received at least one signal and the received feedback signal.

10. (Previously Presented) The method as claimed in claim 1, wherein determining at a source of data a quality metric of a link over which data is to be transmitted comprises:

receiving at a source of data a reference signal;

receiving at a source of data a feedback signal; and

determining the quality metric in accordance with the reference signal, the received reference signal, and the received feedback signal.

11. (Cancelled)

12. (Previously Presented) The method as claimed in claim 1, wherein modifying the quality metric by a transmission power margin comprises:

Attorney Docket No.: 020180 Customer No.: 23696

declaring an outage event when power required for transmission of a second reference signal exceeds power required for transmission of the second reference signal determined from previously modified quality metric;

detecting occurrence of the outage event during a pre-determined interval; and modifying the quality metric in accordance with the detecting.

13. (Previously Presented) The method as claimed in claim 12, wherein modifying the quality metric in accordance with the detecting comprises:

increasing a current transmission power margin by a first amount when a pre-determined number of the outage events occurred during the pre-determined interval; and

modifying the quality metric by the increased transmission power margin.

14. (Previously Presented) The method as claimed in claim 13, further comprising:

decreasing a current transmission power margin by a second amount when the predetermined number of the outage events did not occur during the pre-determined interval; and modifying the quality metric by the decreased transmission power margin.

15. (Previously Presented) The method as claimed in claim 1, wherein modifying the quality metric by a transmission power margin comprises:

declaring an outage event when power required for transmission of data at the estimated rate of data exceeds maximum allowable transmission power;

detecting occurrence of the outage event during a pre-determined interval; and modifying the quality metric in accordance with the detecting.

16. (Previously Presented) The method as claimed in claim 15, wherein modifying the quality metric in accordance with the detecting comprises:

increasing a current transmission power margin by a first amount when a pre-determined number of outages occurred during the pre-determined interval; and

modifying the quality metric by the increased transmission power margin.

Attorney Docket No.: 020180 Customer No.: 23696

17. (Previously Presented) The method as claimed in claim 16, further comprising:

decreasing a current transmission power margin by a second amount when the predetermined number of outages did not occur during the pre-determined interval; and

modifying the quality metric by the decreased transmission power margin.

18. (Previously Presented) The method as claimed in claim 16, wherein increasing a current transmission power margin by a first amount when a pre-determined number of outages occurred during the pre-determined interval comprises:

determining whether the estimated rate of data has changed to a maximum allowable rate of data:

setting a quality metric lower limit to the current value of the quality metric; and

increasing the quality metric by a first value when a pre-determined number of outages occurred during the pre-determined interval.

19. (Previously Presented) The method as claimed in claim 18, further comprising:

decreasing the power margin by a second value if the resulting decreased power margin is greater that the lower limit of the power margin; and

setting the power margin equal to the lower limit of the power margin otherwise.

20. (Previously Presented) The method as claimed in claim 16, wherein the decreasing a current transmission power margin by a second amount when the pre-determined number of outages did not occur during the pre-determined interval; comprises:

determining whether the estimated rate of data has changed to a minimum allowable rate of data;

setting a quality metric upper limit to the current value of the quality metric; and

decreasing the quality metric by a second value when a pre-determined number of outages occurred during the pre-determined interval.

21. (Previously Presented) The method as claimed in claim 20, further comprising:

Attorney Docket No.: 020180 Customer No.: 23696

increasing the power margin by a first value if the resulting increased power margin is

less that the lower limit of the power margin; and

setting the power margin equal to the lower limit of the power margin otherwise.

22. (Previously Presented) The method as claimed in claim 16, wherein increasing a current

transmission power margin by a first amount when a pre-determined number of outages occurred

during the pre-determined interval comprises:

determining whether the estimated rate of data is equal to a maximum allowable rate of

data; and

increasing the quality metric by a first value when a pre-determined number of outages

occurred during the pre-determined interval.

23. (Original) The method as claimed in claim 22, further comprising:

unchanging the power margin when a pre-determined number of outages did not occur

during the pre-determined interval.

24. (Previously Presented) The method as claimed in claim 16, wherein decreasing a current

transmission power margin by a second amount when the pre-determined number of outages did

not occur during the pre-determined interval; comprises:

determining whether the estimated rate of data is equal to a minimum allowable rate of

data; and

decreasing the quality metric by a second value when a pre-determined number of

outages did not occur during the pre-determined interval.

25. (Original) The method as claimed in claim 20, further comprising:

leaving the power margin unchanged when a pre-determined number of outages occurred

during the pre-determined interval.

26. (Previously Presented) The method as claimed in claim 1, wherein determining a maximum

rate of data in accordance with the modified quality metric comprises:

Attorney Docket No.: 020180

Customer No.: 23696

determining a transmission power in accordance with the modified quality metric; and

selecting a data rate whose the determined transmission power does not exceed

maximum allowable transmission power.

27-45. (Cancelled)

46. (Previously Presented) An apparatus for estimating a reverse link maximum data rate,

comprising:

means for determining at a source of data a quality metric of a link over which data is to

be transmitted, wherein the means for determining the quality metric comprises:

means for generating an open loop estimate of a first quality metric;

means for generating a closed loop estimate of a second quality metric;

means for filtering the open loop estimate using a first filtering means;

means for filtering the closed loop estimate using a second filtering means; and

means for summing the filtered open loop estimate and the filtered closed loop estimate;

means for modifying the quality metric by a transmission power margin; and

means for determining a maximum rate of data in accordance with the modified quality

metric.

47. (Cancelled)

48. (Previously Presented) The apparatus as claimed in claim 46, wherein the first filtering

means comprises:

means for filtering the quality metric by a linear filter.

49. (Previously Presented) The apparatus as claimed in claim 46, wherein the second filtering

means comprises:

means for filtering the quality metric by a non-linear filter.

Attorney Docket No.: 020180

Customer No.: 23696

50. (Previously Presented) The apparatus as claimed in claim 49, wherein the means for filtering the quality metric by a non-linear filter comprises:

means for filtering the quality metric by a peak filter.

51. (Previously Presented) The apparatus as claimed in claim 46, wherein the means for

determining at a source of data a quality metric of a link over which data is to be transmitted

comprises:

means for receiving at a source of data at least one signal; and

means for determining the quality metric in accordance with the received at least one

signal.

52. (Previously Presented) The apparatus as claimed in claim 46, wherein the means for

determining at a source of data a quality metric of a link over which data is to be transmitted

comprises:

means for receiving at a source of data at least one first reference signal; and

means for determining the quality metric in accordance with the received at least one

first reference signal.

53. (Previously Presented) The apparatus as claimed in claim 46, wherein the means for

determining at a source of data a quality metric of a link over which data is to be transmitted

comprises:

means for receiving at a source of data a feedback signal; and

means for determining the quality metric in accordance with the received feedback

signal.

54. (Previously Presented) The apparatus as claimed in claim 46, wherein the means for

determining at a source of data a quality metric of a link over which data is to be transmitted

comprises:

means for receiving at a source of data at least one signal;

means for receiving at a source of data a feedback signal; and

Attorney Docket No.: 020180

Customer No.: 23696

means for determining the quality metric in accordance with the received at least one

signal and the received feedback signal.

55. (Previously Presented) The apparatus as claimed in claim 46, wherein the means for

determining at a source of data a quality metric of a link over which data is to be transmitted

comprises:

means for receiving at a source of data a first reference signal;

means for receiving at a source of data a feedback signal; and

means for determining the quality metric in accordance with the first reference signal, the

received first reference signal, and the received feedback signal.

56. (Previously Presented) The apparatus as claimed in claim 46, wherein the means for

modifying the quality metric by a transmission power margin comprises:

means for modifying the quality metric by a pre-determined transmission power margin.

57. (Previously Presented) The apparatus as claimed in claim 46, wherein the means for

modifying the quality metric by a transmission power margin comprises:

means for declaring an outage event when power required for transmission of a second reference signal exceeds power required for transmission of the second reference signal

determined form previously modified quality metric;

means for detecting occurrence of the outage event during a pre-determined interval; and

means for modifying the quality metric in accordance with the detecting.

58. (Previously Presented) The apparatus as claimed in claim 57, wherein the means for

modifying the quality metric in accordance with the detecting comprises:

means for increasing a current transmission power margin by a first amount when a pre-

determined number of the outage events occurred during the pre-determined interval; and

means for modifying the quality metric by the increased transmission power margin.

59. (Previously Presented) The apparatus as claimed in claim 58, further comprising:

Attorney Docket No.: 020180

means for decreasing a current transmission power margin by a second amount when the pre-determined number of the outage events did not occur during the pre-determined interval:

and

means for modifying the quality metric by the decreased transmission power margin.

60. (Previously Presented) The apparatus as claimed in claim 46, wherein the means for

modifying the quality metric by a transmission power margin comprises:

means for declaring an outage event when power required for transmission of data at the

estimated rate of data exceeds maximum allowable transmission power;

means for detecting occurrence of the outage event during a pre-determined interval; and

means for modifying the quality metric in accordance with the detecting.

61. (Previously Presented) The apparatus as claimed in claim 60, wherein the means for

modifying the quality metric in accordance with the detecting comprises:

means for increasing a current transmission power margin by a first amount when a pre-

determined number of outages occurred during the pre-determined interval; and

means for modifying the quality metric by the increased transmission power margin.

62. (Previously Presented) The apparatus as claimed in claim 61, further comprising:

means for decreasing a current transmission power margin by a second amount when the

pre-determined number of outages did not occur during the pre-determined interval; and

means for modifying the quality metric by the decreased transmission power margin.

63. (Previously Presented) The apparatus as claimed in claim 61, wherein the means for increasing a current transmission power margin by a first amount when a pre-determined number

of outages occurred during the pre-determined interval comprises:

means for determining whether the estimated rate of data has changed to a maximum

allowable rate of data;

means for setting a quality metric lower limit to the current value of the quality metric;

and

means for increasing the quality metric by a first value when a pre-determined number of outages occurred during the pre-determined interval.

64. (Previously Presented) The apparatus as claimed in claim 63, further comprising:

means for decreasing the power margin by a second value if the resulting decreased power margin is greater that the lower limit of the power margin; and

means for setting the power margin equal to the lower limit of the power margin otherwise.

65. (Previously Presented) The apparatus as claimed in claim 62, wherein the means for decreasing a current transmission power margin by a second amount when the pre-determined number of outages did not occur during the pre-determined interval; comprises:

means for determining whether the estimated rate of data has changed to a minimum allowable rate of data:

means for setting a quality metric upper limit to the current value of the quality metric; and

means for decreasing the quality metric by a second value when a pre-determined number of outages occurred during the pre-determined interval.

66. (Previously Presented) The apparatus as claimed in claim 65, further comprising:

means for increasing the power margin by a first value if the resulting increased power margin is less that the lower limit of the power margin; and

means for setting the power margin equal to the lower limit of the power margin otherwise.

67. (Previously Presented) The apparatus as claimed in claim 61, wherein the means for increasing a current transmission power margin by a first amount when a pre-determined number of outages occurred during the pre-determined interval comprises:

means for determining whether the estimated rate of data is equal to a maximum allowable rate of data; and

Attorney Docket No.: 020180 Customer No.: 23696

means for increasing the quality metric by a first value when a pre-determined number of

outages occurred during the pre-determined interval.

68. (Original) The apparatus as claimed in claim 67, further comprising:

means for leaving the power margin unchanged when a pre-determined number of

outages did not occur during the pre-determined interval.

69. (Previously Presented) The apparatus as claimed in claim 61, wherein the means for

decreasing a current transmission power margin by a second amount when the pre-determined

number of outages did not occur during the pre-determined interval; comprises:

means for determining whether the estimated rate of data is equal to a minimum

allowable rate of data; and

means for decreasing the quality metric by a second value when a pre-determined number

of outages did not occur during the pre-determined interval.

70. (Original) The apparatus as claimed in claim 69, further comprising:

means for leaving the power margin unchanged when a pre-determined number of

outages occurred during the pre-determined interval.

71. (Previously Presented) The apparatus as claimed in claim 46, wherein the means for

determining a maximum rate of data in accordance with the modified quality metric comprises: means for determining a transmission power in accordance with the modified quality

metric: and

means for selecting a data rate whose the determined transmission power does not exceed

maximum allowable transmission power.

72-108. (Cancelled)

109. (Previously Presented) The method as claimed in claim 1, wherein the second filtering

method comprises:

filtering said quality metric by a linear filter.

110. (Previously Presented) The method as claimed in claim 1, wherein the second filtering method comprises:

filtering said quality metric by a non-linear filter.

111. (Previously Presented) The method as claimed in claim 110, wherein said filtering the quality metric by a non-linear filter comprises:

filtering said quality metric by a peak filter.

112. (Previously Presented) The apparatus as claimed in claim 46, wherein the first filtering means comprises:

means for filtering the quality metric by a linear filter.

113. (Previously Presented) The apparatus as claimed in claim 46, wherein the second filtering means comprises:

means for filtering the quality metric by a non-linear filter.

114. (Previously Presented) The apparatus as claimed in claim 113, wherein the means for filtering the quality metric by a non-linear filter comprises:

means for filtering the quality metric by a peak filter.